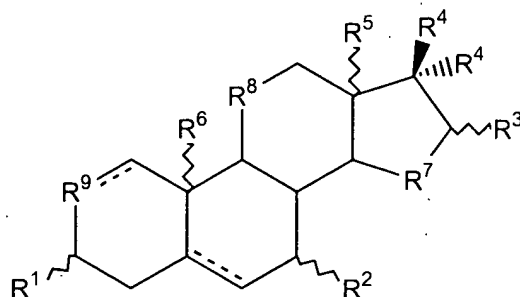


### AMENDMENTS TO THE CLAIMS

1. (currently amended): A method to treat a subject having, or  
5 susceptible to developing, a pathogen infection, an autoimmune disease,  
inflammation or allergy, osteoporosis, acute myelitis, sarcoidosis, a cancer, a  
precancer, a neurological disorder, a wound, a bone fracture, a hemorrhage,  
a burn, a skin lesion or an immunosuppression condition or an unwanted  
immune response either or both of which are associated with a  
10 chemotherapy, radiation exposure or aging, wherein the method comprises  
intermittent administration of an effective amount of a compound to the  
subject, wherein the compound is 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstane-17-  
one hemihydrate or the compound has the structure



15 wherein, the dotted lines are optional double bonds and the hydrogen  
atom at the 5-position, if present, is in the  $\alpha$ -configuration;

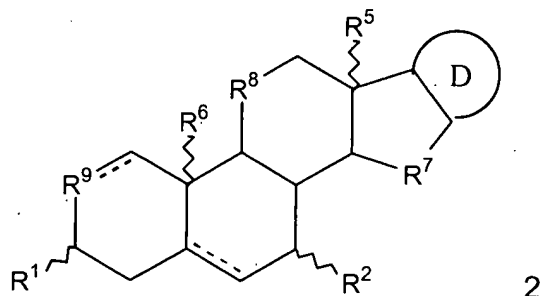
R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup> and R<sup>10</sup> independently are -H, -OH, -OR<sup>PR</sup>, -SH, -  
SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH,  
=NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a  
20 phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a  
sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a  
thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a  
thioacetal, an optionally substituted alkyl group, an optionally substituted  
alkenyl group, an optionally substituted alkynyl group, an optionally  
25 substituted aryl moiety, an optionally substituted heteroaryl moiety, an  
optionally substituted monosaccharide, an optionally substituted

oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,  
 or,

one more of  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^{10}$ ,  $R^{15}$ ,  $R^{17}$  and  $R^{18}$  independently are

5 =O, or,

$R^3$  and both  $R^4$  together comprise a structure of formula 2



$R^7$  is  $-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{CHR}^{10}-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{O}-$   
 $\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{S}-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$ ,  $-\text{O}-$ ,  $-\text{O}-\text{CHR}^{10}-$ ,  $-\text{S}-$ ,  $-\text{S}-$   
 10  $\text{CHR}^{10}-$ ,  $-\text{NR}^{\text{PR}}-$  or  $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$ ;

$R^8$  and  $R^9$  independently are  $-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{CHR}^{10}-$ ,  $-\text{O}-$ ,  $-\text{O}-\text{CHR}^{10}-$ ,  
 $-\text{S}-$ ,  $-\text{S}-\text{CHR}^{10}-$ ,  $-\text{NR}^{\text{PR}}-$  or  $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$ , or  $R^8$  or  $R^9$  independently is absent,  
 leaving a 5-membered ring;

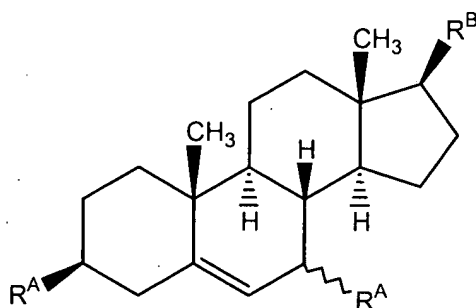
$R^{13}$  independently are  $\text{C}_{1-6}$  alkyl;

15  $R^{\text{PR}}$  independently are a protecting group;

D is a heterocycle or a 4-, 5-, 6- or 7-membered ring that comprises  
 saturated carbon atoms, wherein 1, 2 or 3 ring carbon atoms of the 4-, 5-, 6-  
 or 7-membered ring are optionally independently substituted with  $-\text{O}-$ ,  $-\text{S}-$  or  $-\text{NR}^{\text{PR}}-$  or where 1, 2 or 3 hydrogen atoms of the heterocycle or 1 or 2

20 hydrogen atoms of the 4-, 5-, 6- or 7-membered ring are substituted with -  
 $\text{OR}^{\text{PR}}$ ,  $-\text{SR}^{\text{PR}}$ ,  $-\text{N}(\text{R}^{\text{PR}})_2$ ,  $-\text{O}-\text{Si}(\text{R}^{13})_3$ ,  $-\text{CN}$ ,  $-\text{NO}_2$ , an ester, a thioester, a  
 phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a  
 sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a  
 thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a  
 25 thioacetal, a halogen, an optionally substituted alkyl group, an optionally  
 substituted alkenyl group, an optionally substituted alkynyl group, an

optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,  
an optionally substituted monosaccharide, an optionally substituted  
oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,  
5 or, one more of the ring carbons are substituted with =O or =S, or D  
comprises two 5- or 6-membered rings, wherein the rings are fused or are  
linked by 1 or 2 bonds, provided that the compound is not 3 $\beta$ -hydroxyandrost-  
5-ene-17-one, 3 $\beta$ -hydroxyandrost-5-ene-17-one 3-sulfate or an ester or ether  
derivative of either compound and provided that when the compound has the  
10 structure

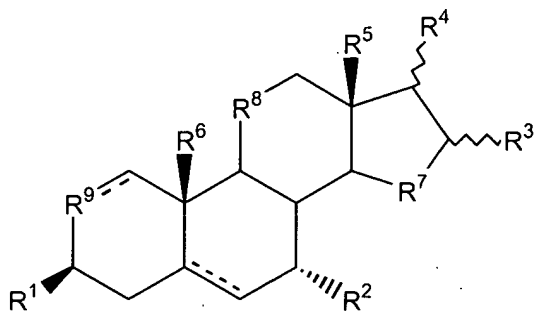
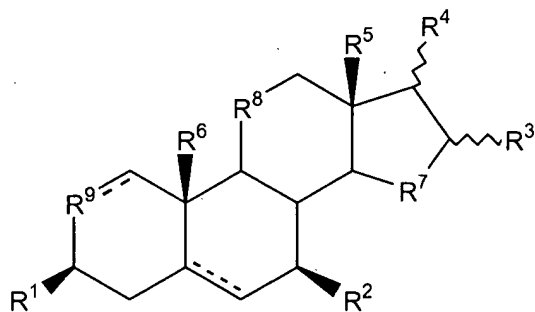
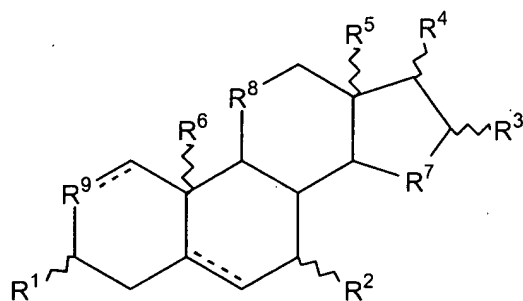


wherein each R<sup>A</sup> independently is -OH, =O, an ester or an ether, and  
R<sup>B</sup> is -C(O)CH<sub>3</sub>, -OH, =O, an ester or an ether, then the ~~use of the compound~~  
method is for the treatment of a subject having or susceptible to developing  
15 an autoimmune disease, inflammation or allergy, osteoporosis, acute myelitis,  
sarcoidosis, a cancer, a precancer, or an immunosuppression condition or an  
unwanted immune response either or both of which are associated with a  
chemotherapy, a radiation therapy, a wound, a bone fracture, a hemorrhage,  
a skin lesion or a burn or the medicament is for the treatment of a human  
20 having or susceptible to developing a pathogen infection selected from the  
group consisting of HIV-1, HIV-2, HTLV-1, HTLV-2, HSV-1, HSV-2, HHV-6,  
HHV-8, CMV, hepatitis C virus, hepatitis B virus, Western Equine Encephalitis  
Virus, Japanese Encephalitis Virus, Yellow Fever Virus, a poxvirus, a Dengue  
virus, a papillomavirus, a togavirus, a flavivirus, an intracellular bacterium,  
25 *Mycobacterium*, *Listeria*, *Brucella*, *Bartonella*, *Bordetella*, *Pseudomonas*,  
*Yersinia*, *Vibrio*, *Salmonella*, *Streptococcus*, *Staphylococcus*, *Candida*,

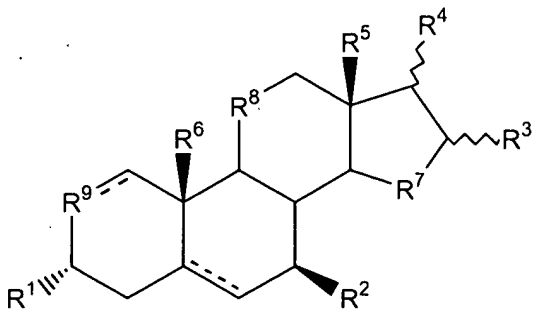
*Aspergillus*, *Cryptococcus*, *Plasmodium*, *Trypanosoma*, *Leishmania*, a gastrointestinal nematode, a helminth, *Cryptosporidium*, *Toxoplasma*, *Pneumocystis*, *Schistosoma*, or *Strongyloides stercoralis*.

5

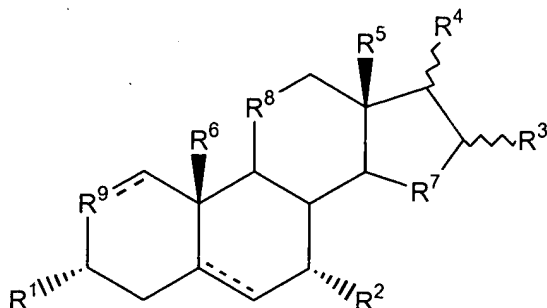
2. (original): The method of claim 1 wherein the compound has the structure



10



or



wherein, hydrogen atoms at the 5 (if present), 8, 9 and 14 positions respectively are in the  $\alpha, \alpha, \alpha, \alpha$ ,  $\alpha, \alpha, \alpha, \beta$ ,  $\alpha, \alpha, \beta, \alpha$ ,  $\alpha, \beta, \alpha, \alpha$ ,  $\alpha, \alpha, \beta, \beta$ ,  $\alpha, \beta, \alpha, \beta$ ,  $\alpha, \beta, \beta, \alpha$  or  $\alpha, \beta, \beta, \beta$  configurations.

3. (original): The method of claim 2 wherein hydrogen atoms at the 5 (if present), 8, 9 and 14 positions respectively are in the  $\alpha, \beta, \alpha, \alpha$  configurations.

4. (original): The method of claim 1 wherein

(1)  $R^3$  is a halogen and  $R^1$ ,  $R^2$ , and one or both  $R^4$  independently are -OH,  $-OR^{PR}$ , an ether an ester having the structure steroid-O-C(O)-organic moiety, carbonate, carbamate having the structure steroid-O-C(O)- $NR^{PR}$ -organic moiety, or an amino acid ester or peptide having the structure (A)  $R^{32}$ -NH- $\{[C(R^{29})(R^{30})]_b-C(O)-N(R^{31})\}_f-[C(R^{29})(R^{30})]_a-C(O)-O$ -steroid, (B)  $R^{33}$ -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_g-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-O$ -steroid, or (C)  $R^{33}$ -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_e-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-C(O)-O$ -steroid, where each  $R^{29}$ ,  $R^{30}$  and  $R^{31}$  is independently selected and each  $R^{29}$  independently is -H or a C1-20 organic moiety, each  $R^{30}$  independently is the side chain of an amino acid, each  $R^{31}$  is -H or a protecting group,  $R^{32}$  and  $R^{33}$  independently are -H, a protecting group, an ester or an amide where each atom or group is independently chosen, a, b, c and d independently are 1, 2, 3, 4 or 5, and e, f and g independently are an integer from 0 to 1000, or

(2)  $R^1$ ,  $R^2$ ,  $R^3$  and one or both  $R^4$  independently are -OH,  $-OR^{PR}$ , an ether, an ester having the structure steroid-O-C(O)-organic moiety,

carbonate, carbamate having the structure steroid-O-C(O)-NR<sup>PR</sup>-organic moiety or an amino acid or peptide having the structure (A) R<sup>32</sup>-NH-  
5 { [C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>b</sub>-C(O)-N(R<sup>31</sup>) }<sub>f</sub>-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>a</sub>-C(O)-O-steroid, (B) R<sup>33</sup>-O-{C(O)-  
[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>d</sub>-N(R<sup>31</sup>) }<sub>g</sub>-C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>c</sub>-N(R<sup>31</sup>)-O-steroid, or (C) R<sup>33</sup>-O-  
{C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>d</sub>-N(R<sup>31</sup>) }<sub>e</sub>-C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>c</sub>-N(R<sup>31</sup>)-C(O)-O-steroid, or

(3) R<sup>1</sup> is -H and R<sup>2</sup>, R<sup>3</sup> and one or both R<sup>4</sup> are not -H, provided that the compound is not 7 $\alpha$ ,17 $\alpha$ -methyl-16-methylene-17 $\beta$ -hydroxy-19-norandrost-4-ene, 7 $\alpha$ -methyl-16-methylene-17 $\beta$ -hydroxy-17 $\alpha$ -ethynyl-19-norandrost-4-ene  
10 or 7 $\alpha$ -methyl-16-methylene-17-oxo-19-norandrost-4-ene or an ester or ether of any of these compounds, or

(4) R<sup>1</sup> is -CN, =CH<sub>2</sub>, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure  
15 steroid-C(S)-O-organic moiety or thioacetal having the structure steroid-C(O)-S-organic moiety, and R<sup>3</sup> and one or both R<sup>4</sup> are not -H, provided that R<sup>1</sup> is not optionally substituted phenyl and provided that if R<sup>1</sup> is -C(O)-OCH<sub>3</sub>, then R<sup>4</sup> is not -CH<sub>3</sub> or -C(O)-CH<sub>3</sub>, or

(5) R<sup>1</sup> is a halogen and R<sup>3</sup> and one or both R<sup>4</sup> are not -H, provided that  
20 either R<sup>3</sup> is -OH, -OR<sup>PR</sup>, an ether, an ester having the structure steroid-O-C(O)-organic moiety, carbonate (O-C(O)-O-), carbamate, a halogen, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -NO<sub>2</sub>, -N<sub>3</sub>, =NOH, =NOC(O)CH<sub>3</sub>, an amide, -SH, -SR<sup>PR</sup>, =S, thioether, thioacetal -CN, acyl, thioacyl, or an amino acid or peptide having the structure (A) R<sup>32</sup>-NH-{ [C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>b</sub>-C(O)-N(R<sup>31</sup>) }<sub>f</sub>-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>a</sub>-C(O)-O-  
25 steroid, (B) R<sup>33</sup>-O-{C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>d</sub>-N(R<sup>31</sup>) }<sub>g</sub>-C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>c</sub>-N(R<sup>31</sup>)-O-steroid, or (C) R<sup>33</sup>-O-{C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>d</sub>-N(R<sup>31</sup>) }<sub>e</sub>-C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>c</sub>-N(R<sup>31</sup>)-C(O)-O-steroid, or one or both R<sup>4</sup> independently are -OH, -OR<sup>PR</sup>, an ether, an ester having the structure steroid-O-C(O)-organic moiety, carbonate, carbamate, a halogen, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -NO<sub>2</sub>, -N<sub>3</sub>, =NOH, =NOC(O)CH<sub>3</sub>,  
30 amide having the structure steroid-NR<sup>PR</sup>-C(O)-organic moiety, -SH, -SR<sup>PR</sup>,

=S, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-O-C(O)-organic moiety, thioester having the structure steroid-O-C(S)-organic moiety, thioacetal having the structure steroid-S-C(O)-organic moiety, or an amino acid or peptide having the structure (A)  $R^{32}$ -NH- $\{[C(R^{29})(R^{30})]_b-C(O)-N(R^{31})\}_f$ - $[C(R^{29})(R^{30})]_a-C(O)-O$ -steroid, (B)  $R^{33}$ -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_g-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-O$ -steroid, or (C)  $R^{33}$ -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_e-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-C(O)-O$ -steroid, or

(6)  $R^1$  is a halogen,  $-NH_2$ ,  $-N(R^{PR})_2$ ,  $-NO_2$ ,  $=NOH$ ,  $=NOC(O)CH_3$ , amide having the structure steroid- $NR^{PR}-C(O)$ -organic moiety, carbamate having the structure steroid- $NR^{PR}-C(O)-O$ -organic moiety,  $-SH$ ,  $-SR^{PR}$ ,  $=S$ , thioether, thioacetal having the structure steroid-S-C(O)-organic moiety,  $-CN$ ,  $=CH_2$ , acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety or thioacetal having the structure steroid-C(O)-S-organic moiety and  $R^2$ ,  $R^3$  and one or both  $R^4$  are not  $-H$ , or

(7)  $R^1$  is a halogen,  $-NH_2$ ,  $-NO_2$ ,  $-N_3$ ,  $=NOH$ ,  $=NOC(O)CH_3$ , amide having the structure steroid- $NR^{PR}-C(O)$ -organic moiety, carbamate having the structure steroid- $NR^{PR}-C(O)-O$ -organic moiety,  $-SR^{PR}$ , thioether, thioacetal having the structure steroid-S-C(O)-organic moiety,  $-CN$ ,  $=CH_2$ , acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and  $R^2$  and one or both  $R^4$  are not  $-H$  and  $R^9$  is not  $-CH_2-$ , provided that if one  $R^4$  is  $-CH_2CH_3$ , then  $R^3$  is not  $=O$ , or

(8)  $R^1$  is a halogen,  $-NH_2$ ,  $-N(R^{PR})_2$ ,  $-NO_2$ ,  $-N_3$ ,  $=NOH$ ,  $=NOC(O)CH_3$ , amide having the structure steroid- $NR^{PR}-C(O)$ -organic moiety, carbamate

having the structure steroid-NR<sup>PR</sup>-C(O)-O-organic moiety, -SR<sup>PR</sup>, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, =CH<sub>2</sub>, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R<sup>2</sup> and one or both R<sup>4</sup> are not -H and R<sup>7</sup> is not -CH<sub>2</sub>-, or

- 10 (9) R<sup>1</sup> is a halogen, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -NO<sub>2</sub>, -N<sub>3</sub>, =NOH, =NOC(O)CH<sub>3</sub>, amide having the structure steroid-NR<sup>PR</sup>-C(O)-organic moiety, carbamate having the structure steroid-NR<sup>PR</sup>-C(O)-O-organic moiety, -SR<sup>PR</sup>, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, =CH<sub>2</sub>, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R<sup>2</sup> and one or both R<sup>4</sup> are not -H, and R<sup>6</sup> is not -CH<sub>3</sub>, provided that R<sup>1</sup> is not fluorine if R<sup>2</sup> is =O, one R<sup>4</sup> is -OH or -O-C(O)-CH<sub>3</sub>, and R<sup>6</sup> is -CH<sub>2</sub>OH or -CH<sub>2</sub>O-C(O)-CH<sub>3</sub>, or

(10) R<sup>1</sup> is -H, R<sup>2</sup> and one or both R<sup>4</sup> are not -H and R<sup>9</sup> is not -CH<sub>2</sub>-, provided that R<sup>9</sup> is not -C(O)- or -CH(OH)- when R<sup>2</sup> is -OH in the  $\alpha$ -configuration, both R<sup>4</sup> are -H and alkyl and a double bond is present at the 4-5 position, or

- 25 (11) R<sup>1</sup> is -H, R<sup>2</sup> is not -H and R<sup>8</sup> and R<sup>9</sup> are not -CH<sub>2</sub>-, or

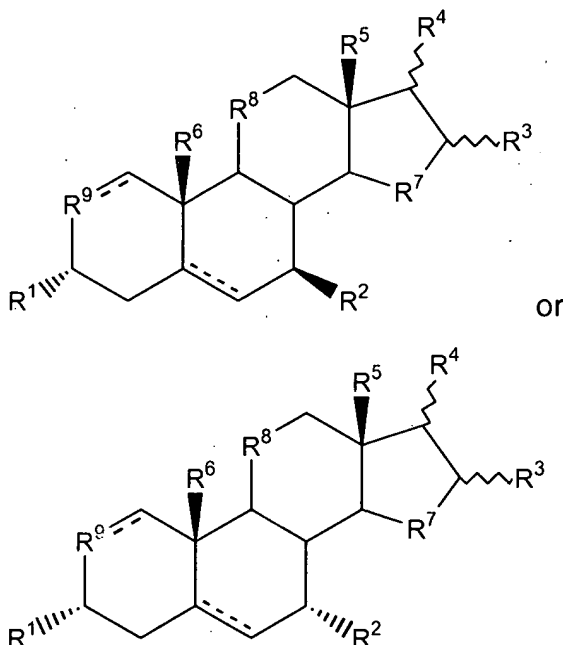
- (12) R<sup>1</sup> is a halogen, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -NO<sub>2</sub>, -N<sub>3</sub>, =NOH, =NOC(O)CH<sub>3</sub>, amide having the structure steroid-NR<sup>PR</sup>-C(O)-organic moiety, carbamate having the structure steroid-NR<sup>PR</sup>-C(O)-O-organic moiety, -SH, -SR<sup>PR</sup>, =S, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, =CH<sub>2</sub>, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the



structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and  $R^3$  and one or both  $R^4$  are not -H, and  $R^6$  is not -

5  $\text{CH}_3$ , or

(13) the compound has the structure



wherein  $R^1$  is -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,

10  $R^2$  is -H, -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a

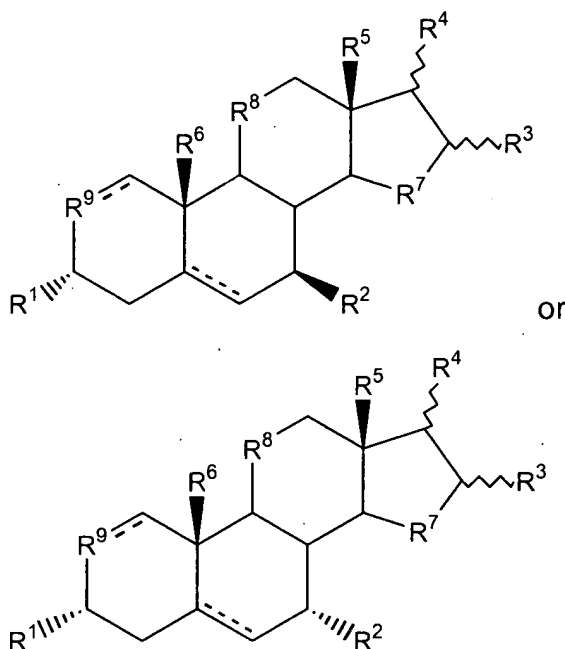
15 20

phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,

$R^3$  is -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, provided that the compound is not 3 $\alpha$ -bromo-16 $\alpha$ -methoxyandrost-5-ene-17-one, and

$R^4$  is -H, -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or

(14) the compound has the structure



- 5        wherein  $R^1$  is -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,
- 10         $R^2$  is -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an
- 15         $R^3$  is -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an
- 20         $R^4$  is -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an

optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,  
an optionally substituted monosaccharide, an optionally substituted  
oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,  
5 and

$R^3$  is -H, -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an  
ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a  
phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a  
10 peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a  
carbamate, a thioacetal, an optionally substituted alkyl group, an optionally  
substituted alkenyl group, an optionally substituted alkynyl group, an  
optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,  
an optionally substituted monosaccharide, an optionally substituted  
15 oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,  
provided that the compound is not 3 $\alpha$ -bromo-16 $\alpha$ -methoxyandrost-5-ene-17-  
one, and

$R^4$  is -H, -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an  
20 ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a  
phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a  
peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a  
carbamate, a thioacetal, an optionally substituted alkyl group, an optionally  
substituted alkenyl group, an optionally substituted alkynyl group, an  
25 optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,  
an optionally substituted monosaccharide, an optionally substituted  
oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,  
or

(15)  $R^1$  is a halogen, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -NO<sub>2</sub>, -N<sub>3</sub>, =NOH, amide having  
30 the structure steroid-NR<sup>PR</sup>-C(O)-organic moiety, carbamate having the  
structure steroid-NR<sup>PR</sup>-C(O)-O-organic moiety, -SR<sup>PR</sup>, thioether, thioacetal

having the structure steroid-S-C(O)-organic moiety, -CN, =CH<sub>2</sub>, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure  
5 steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R<sup>2</sup>, one or both R<sup>4</sup> and R<sup>7</sup> are not -H or -CH<sub>2</sub>-, provided that if R<sup>1</sup> is -NH<sub>2</sub> or -N(R<sup>PR</sup>)<sub>2</sub>, then R<sup>2</sup> is not methyl, or

(16) R<sup>1</sup> is -H and R<sup>3</sup>, one or both R<sup>4</sup> are not -H and R<sup>8</sup> is not -CH<sub>2</sub>-, or

10 (17) R<sup>1</sup> is -H and R<sup>3</sup>, one or both R<sup>4</sup> are not -H and R<sup>9</sup> is not -CH<sub>2</sub>-, or

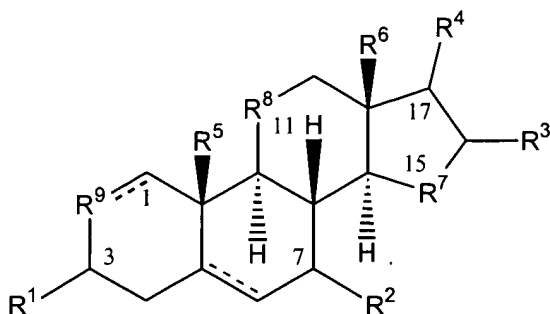
(18) R<sup>1</sup> is -H and R<sup>2</sup>, one or both R<sup>4</sup> are not -H and R<sup>8</sup> is not -CH<sub>2</sub>-, or

(19) R<sup>1</sup> is a halogen, R<sup>2</sup> and R<sup>8</sup> are not -H or -CH<sub>2</sub>- and one or both R<sup>4</sup> independently are -OR<sup>PR</sup>, ether, an ester having the structure steroid-O-C(O)-organic moiety, carbonate (O-C(O)-O-), carbamate having the structure  
15 steroid-O-C(O)-NR<sup>PR</sup>-organic moiety, optionally substituted monosaccharide, optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide, a polymer, or an amino acid or peptide having the structure  
(A) R<sup>32</sup>-NH-[[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>b</sub>-C(O)-N(R<sup>31</sup>)]<sub>f</sub>-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>a</sub>-C(O)-O-steroid, (B)  
R<sup>33</sup>-O-[C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>d</sub>-N(R<sup>31</sup>)]<sub>g</sub>-C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>c</sub>-N(R<sup>31</sup>)-O-steroid, or  
20 (C) R<sup>33</sup>-O-[C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>d</sub>-N(R<sup>31</sup>)]<sub>e</sub>-C(O)-[C(R<sup>29</sup>)(R<sup>30</sup>)]<sub>c</sub>-N(R<sup>31</sup>)-C(O)-O-steroid.

5. (original): The method of claim 4 wherein hydrogen atoms at the 5 (if present), 8, 9 and 14 positions respectively are in the  $\alpha,\beta,\alpha,\alpha$  configurations.

25

6. (currently amended): The method of claim 1 wherein the compound has the structure



wherein, R<sup>5</sup> and R<sup>6</sup> independently are -CH<sub>3</sub>, -H or -CH<sub>2</sub>OH, R<sup>7</sup>, R<sup>8</sup> and R<sup>9</sup> independently are -CH<sub>2</sub>-, -O-, -NH- or -S-, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> respectively are in the β,β,α,β, α,β,α,β, β,α,α,β, β,β,β,β, or β,β,α,α configurations;

R<sup>1</sup> is -OH, -SH, =S, -OCH<sub>3</sub>, -O-S(O)(O)-O-Na<sup>+</sup>, -O-S(O)(O)-OC<sub>2</sub>H<sub>5</sub>, -CH<sub>3</sub>, -H, or -OC(O)C(CH<sub>3</sub>)<sub>3</sub>;

R<sup>2</sup> is -H, -OH, =O, -CH<sub>3</sub>, -OCH<sub>3</sub>, -OC<sub>2</sub>H<sub>5</sub>, -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -Cl, or -Br;

R<sup>3</sup> is -Br, -Cl, -I, -F, -OH, =O, -OC(O)CH<sub>3</sub>, -OC(O)CH<sub>2</sub>CH<sub>3</sub>, or -OC(O)CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>;

R<sup>4</sup> is =O, -OH, -F, -Cl, -Br, -I, -OC(O)CH<sub>3</sub>, -OC(O)CH<sub>2</sub>CH<sub>3</sub>, or -OC(O)CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>. and the compound's structure is designated by numbers assigned to R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> according to the convention, R<sup>1</sup>.R<sup>2</sup>.R<sup>3</sup>.R<sup>4</sup>;

wherein the structures for R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are designated by numbers respectively and, for R<sup>1</sup>, structure 1 is -OH, structure 3 is -SH, structure 4 is =S, structure 5 is -OCH<sub>3</sub>, structure 6 is -O-S(O)(O)-O-Na<sup>+</sup>, structure 7 is -O-S(O)(O)-OC<sub>2</sub>H<sub>5</sub>, structure 8 is -CH<sub>3</sub>, structure 9 is -H, and structure 10 is -OC(O)C(CH<sub>3</sub>)<sub>3</sub>, and

for R<sup>2</sup>, structure 1 is -H, structure 2 is -OH, structure 3 is =O, structure 4 is -CH<sub>3</sub>, structure 5 is -OCH<sub>3</sub>, structure 6 is -OC<sub>2</sub>H<sub>5</sub>, structure 7 is -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, structure 8 is -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, structure 9 is -Cl, and structure 10 is -Br, and

for R<sup>3</sup>, structure 1 is -Br, structure 2 is -Cl, structure 3 is -I, structure 4 is -F, structure 5 is -H, structure 6 is -OH, structure 7 is =O, structure 8 is -

~~OC(O)CH<sub>3</sub>, structure 9 is OC(O)CH<sub>2</sub>CH<sub>3</sub>, and structure 10 is~~

~~OC(O)CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, and~~

~~——— for R<sup>4</sup>, structure 1 is =O, structure 2 is OH, structure 3 is H, structure~~

5 ~~4 is F, structure 5 is Cl, structure 6 is Br, structure 7 is I, structure 8 is~~

~~OC(O)CH<sub>3</sub>, structure 9 is OC(O)CH<sub>2</sub>CH<sub>3</sub>, and structure 10 is~~

~~OC(O)CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, wherein the compound is 1.1.1.1, 1.1.1.2, 1.1.1.3,~~

~~1.1.1.4, 1.1.1.5, 1.1.1.6, 1.1.1.7, 1.1.1.8, 1.1.1.9, 1.1.1.10, 1.1.2.1, 1.1.2.2,~~

~~1.1.2.3, 1.1.2.4, 1.1.2.5, 1.1.2.6, 1.1.2.7, 1.1.2.8, 1.1.2.9, 1.1.2.10, 1.1.3.1,~~

10 ~~1.1.3.2, 1.1.3.3, 1.1.3.4, 1.1.3.5, 1.1.3.6, 1.1.3.7, 1.1.3.8, 1.1.3.9, 1.1.3.10,~~

~~1.1.4.1, 1.1.4.2, 1.1.4.3, 1.1.4.4, 1.1.4.5, 1.1.4.6, 1.1.4.7, 1.1.4.8, 1.1.4.9,~~

~~1.1.4.10, 1.1.5.1, 1.1.5.2, 1.1.5.3, 1.1.5.4, 1.1.5.5, 1.1.5.6, 1.1.5.7, 1.1.5.8,~~

~~1.1.5.9, 1.1.5.10, 1.1.6.1, 1.1.6.2, 1.1.6.3, 1.1.6.4, 1.1.6.5, 1.1.6.6, 1.1.6.7,~~

~~1.1.6.8, 1.1.6.9, 1.1.6.10, 1.1.7.1, 1.1.7.2, 1.1.7.3, 1.1.7.4, 1.1.7.5, 1.1.7.6,~~

15 ~~1.1.7.7, 1.1.7.8, 1.1.7.9, 1.1.7.10, 1.1.8.1, 1.1.8.2, 1.1.8.3, 1.1.8.4, 1.1.8.5,~~

~~1.1.8.6, 1.1.8.7, 1.1.8.8, 1.1.8.9, 1.1.8.10, 1.1.9.1, 1.1.9.2, 1.1.9.3, 1.1.9.4,~~

~~1.1.9.5, 1.1.9.6, 1.1.9.7, 1.1.9.8, 1.1.9.9, 1.1.9.10, 1.1.10.1, 1.1.10.2, 1.1.10.3,~~

~~1.1.10.4, 1.1.10.5, 1.1.10.6, 1.1.10.7, 1.1.10.8, 1.1.10.9, 1.1.10.10, 1.2.1.1,~~

~~1.2.1.2, 1.2.1.3, 1.2.1.4, 1.2.1.5, 1.2.1.6, 1.2.1.7, 1.2.1.8, 1.2.1.9, 1.2.1.10,~~

20 ~~1.2.2.1, 1.2.2.2, 1.2.2.3, 1.2.2.4, 1.2.2.5, 1.2.2.6, 1.2.2.7, 1.2.2.8, 1.2.2.9,~~

~~1.2.2.10, 1.2.3.1, 1.2.3.2, 1.2.3.3, 1.2.3.4, 1.2.3.5, 1.2.3.6, 1.2.3.7, 1.2.3.8,~~

~~1.2.3.9, 1.2.3.10, 1.2.4.1, 1.2.4.2, 1.2.4.3, 1.2.4.4, 1.2.4.5, 1.2.4.6, 1.2.4.7,~~

~~1.2.4.8, 1.2.4.9, 1.2.4.10, 1.2.5.1, 1.2.5.2, 1.2.5.3, 1.2.5.4, 1.2.5.5, 1.2.5.6,~~

~~1.2.5.7, 1.2.5.8, 1.2.5.9, 1.2.5.10, 1.2.6.1, 1.2.6.2, 1.2.6.3, 1.2.6.4, 1.2.6.5,~~

25 ~~1.2.6.6, 1.2.6.7, 1.2.6.8, 1.2.6.9, 1.2.6.10, 1.2.7.1, 1.2.7.2, 1.2.7.3, 1.2.7.4,~~

~~1.2.7.5, 1.2.7.6, 1.2.7.7, 1.2.7.8, 1.2.7.9, 1.2.7.10, 1.2.8.1, 1.2.8.2, 1.2.8.3,~~

~~1.2.8.4, 1.2.8.5, 1.2.8.6, 1.2.8.7, 1.2.8.8, 1.2.8.9, 1.2.8.10, 1.2.9.1, 1.2.9.2,~~

~~1.2.9.3, 1.2.9.4, 1.2.9.5, 1.2.9.6, 1.2.9.7, 1.2.9.8, 1.2.9.9, 1.2.9.10, 1.2.10.1,~~

~~1.2.10.2, 1.2.10.3, 1.2.10.4, 1.2.10.5, 1.2.10.6, 1.2.10.7, 1.2.10.8, 1.2.10.9,~~

30 ~~1.2.10.10, 1.3.1.1, 1.3.1.2, 1.3.1.3, 1.3.1.4, 1.3.1.5, 1.3.1.6, 1.3.1.7, 1.3.1.8,~~

~~1.3.1.9, 1.3.1.10, 1.3.2.1, 1.3.2.2, 1.3.2.3, 1.3.2.4, 1.3.2.5, 1.3.2.6, 1.3.2.7,~~

~~1.3.2.8, 1.3.2.9, 1.3.2.10, 1.3.3.1, 1.3.3.2, 1.3.3.3, 1.3.3.4, 1.3.3.5, 1.3.3.6,  
1.3.3.7, 1.3.3.8, 1.3.3.9, 1.3.3.10, 1.3.4.1, 1.3.4.2, 1.3.4.3, 1.3.4.4, 1.3.4.5,  
1.3.4.6, 1.3.4.7, 1.3.4.8, 1.3.4.9, 1.3.4.10, 1.3.5.1, 1.3.5.2, 1.3.5.3, 1.3.5.4,  
5 1.3.5.5, 1.3.5.6, 1.3.5.7, 1.3.5.8, 1.3.5.9, 1.3.5.10, 1.3.6.1, 1.3.6.2, 1.3.6.3,  
1.3.6.4, 1.3.6.5, 1.3.6.6, 1.3.6.7, 1.3.6.8, 1.3.6.9, 1.3.6.10, 1.3.7.1, 1.3.7.2,  
1.3.7.3, 1.3.7.4, 1.3.7.5, 1.3.7.6, 1.3.7.7, 1.3.7.8, 1.3.7.9, 1.3.7.10, 1.3.8.1,  
1.3.8.2, 1.3.8.3, 1.3.8.4, 1.3.8.5, 1.3.8.6, 1.3.8.7, 1.3.8.8, 1.3.8.9, 1.3.8.10,  
1.3.9.1, 1.3.9.2, 1.3.9.3, 1.3.9.4, 1.3.9.5, 1.3.9.6, 1.3.9.7, 1.3.9.8, 1.3.9.9,  
10 1.3.9.10, 1.3.10.1, 1.3.10.2, 1.3.10.3, 1.3.10.4, 1.3.10.5, 1.3.10.6, 1.3.10.7,  
1.3.10.8, 1.3.10.9, 1.3.10.10, 1.4.1.1, 1.4.1.2, 1.4.1.3, 1.4.1.4, 1.4.1.5, 1.4.1.6,  
1.4.1.7, 1.4.1.8, 1.4.1.9, 1.4.1.10, 1.4.2.1, 1.4.2.2, 1.4.2.3, 1.4.2.4, 1.4.2.5,  
1.4.2.6, 1.4.2.7, 1.4.2.8, 1.4.2.9, 1.4.2.10, 1.4.3.1, 1.4.3.2, 1.4.3.3, 1.4.3.4,  
1.4.3.5, 1.4.3.6, 1.4.3.7, 1.4.3.8, 1.4.3.9, 1.4.3.10, 1.4.4.1, 1.4.4.2, 1.4.4.3,  
15 1.4.4.4, 1.4.4.5, 1.4.4.6, 1.4.4.7, 1.4.4.8, 1.4.4.9, 1.4.4.10, 1.4.5.1, 1.4.5.2,  
1.4.5.3, 1.4.5.4, 1.4.5.5, 1.4.5.6, 1.4.5.7, 1.4.5.8, 1.4.5.9, 1.4.5.10, 1.4.6.1,  
1.4.6.2, 1.4.6.3, 1.4.6.4, 1.4.6.5, 1.4.6.6, 1.4.6.7, 1.4.6.8, 1.4.6.9, 1.4.6.10,  
1.4.7.1, 1.4.7.2, 1.4.7.3, 1.4.7.4, 1.4.7.5, 1.4.7.6, 1.4.7.7, 1.4.7.8, 1.4.7.9,  
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30 ~~7.10.9.10, 7.10.10.1, 7.10.10.2, 7.10.10.3, 7.10.10.4, 7.10.10.5, 7.10.10.6,~~  
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5 8.1.4.2, 8.1.4.3, 8.1.4.4, 8.1.4.5, 8.1.4.6, 8.1.4.7, 8.1.4.8, 8.1.4.9, 8.1.4.10,  
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10.9.10.9, 10.9.10.10, 10.10.1.1, 10.10.1.2, 10.10.1.3, 10.10.1.4, 10.10.1.5,  
15 10.10.1.6, 10.10.1.7, 10.10.1.8, 10.10.1.9, 10.10.1.10, 10.10.2.1, 10.10.2.2,  
10.10.2.3, 10.10.2.4, 10.10.2.5, 10.10.2.6, 10.10.2.7, 10.10.2.8, 10.10.2.9,  
10.10.2.10, 10.10.3.1, 10.10.3.2, 10.10.3.3, 10.10.3.4, 10.10.3.5, 10.10.3.6,  
10.10.3.7, 10.10.3.8, 10.10.3.9, 10.10.3.10, 10.10.4.1, 10.10.4.2, 10.10.4.3,  
10.10.4.4, 10.10.4.5, 10.10.4.6, 10.10.4.7, 10.10.4.8, 10.10.4.9, 10.10.4.10,  
20 10.10.5.1, 10.10.5.2, 10.10.5.3, 10.10.5.4, 10.10.5.5, 10.10.5.6, 10.10.5.7,  
10.10.5.8, 10.10.5.9, 10.10.5.10, 10.10.6.1, 10.10.6.2, 10.10.6.3, 10.10.6.4,  
10.10.6.5, 10.10.6.6, 10.10.6.7, 10.10.6.8, 10.10.6.9, 10.10.6.10, 10.10.7.1,  
10.10.7.2, 10.10.7.3, 10.10.7.4, 10.10.7.5, 10.10.7.6, 10.10.7.7, 10.10.7.8,  
10.10.7.9, 10.10.7.10, 10.10.8.1, 10.10.8.2, 10.10.8.3, 10.10.8.4, 10.10.8.5,  
25 10.10.8.6, 10.10.8.7, 10.10.8.8, 10.10.8.9, 10.10.8.10, 10.10.9.1, 10.10.9.2,  
10.10.9.3, 10.10.9.4, 10.10.9.5, 10.10.9.6, 10.10.9.7, 10.10.9.8, 10.10.9.9,  
10.10.9.10, 10.10.10.1, 10.10.10.2, 10.10.10.3, 10.10.10.4, 10.10.10.5,  
10.10.10.6, 10.10.10.7, 10.10.10.8, 10.10.10.9 or 10.10.10.10.~~

30 7. (original): The method of claim 6 wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$   
respectively are in the  $\beta, \beta, \alpha, \beta$  configurations.

8. (original): The method of claim 6 wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  respectively are in the  $\beta,\beta,\beta,\beta$  configurations.

5 9. (original): The method of claim 6 wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  respectively are in the  $\alpha,\beta,\alpha,\beta$  configurations.

10 10. (original): The method of claim 6 wherein no double bond is present at the 1-2 or 5-6 positions,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  respectively are in the  $\beta,\beta,\alpha,\beta$  configurations,  $R^5$  and  $R^6$  are  $-\text{CH}_3$  and  $R^7$ ,  $R^8$  and  $R^9$  are  $-\text{CH}_2-$ .

15 11. (original): The method of claim 6 wherein no double bond is present at the 1-2 position, a double bond is present at the 5-6 position,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  respectively are in the  $\beta,\beta,\alpha,\beta$  configurations,  $R^5$  and  $R^6$  are  $-\text{CH}_3$  and  $R^7$ ,  $R^8$  and  $R^9$  are  $-\text{CH}_2-$ .

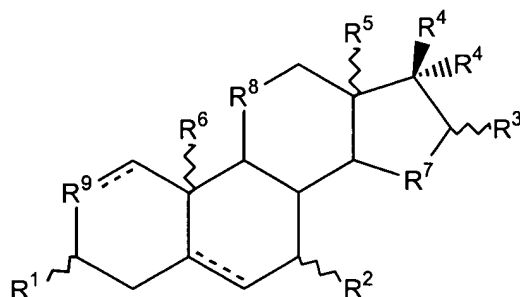
20 12. (original): The method of claim 6 wherein no double bond is present at the 1-2 position, a double bond is present at the 5-6 position,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  respectively are in the  $\beta,\alpha,\alpha,\beta$  configurations,  $R^5$  and  $R^6$  are  $-\text{CH}_3$  and  $R^7$ ,  $R^8$  and  $R^9$  are  $-\text{CH}_2-$ .

25 13. (original): The method of claim 6 wherein no double bond is present at the 5-6 position, a double bond is present at the 1-2 position,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  respectively are in the  $\alpha,\beta,\alpha,\beta$  configurations,  $R^5$  and  $R^6$  are  $-\text{CH}_3$  and  $R^7$ ,  $R^8$  and  $R^9$  are  $-\text{CH}_2-$ .

14. (original): The method of claim 6 wherein  $R^8$  is  $-\text{O}-$  or  $-\text{NH}-$  and  $R^7$  and  $R^9$  are  $-\text{CH}_2-$ .

15. (original): The method of claim 6 wherein  $R^9$  is -O- or -NH- and  $R^7$  and  $R^8$  are -CH<sub>2</sub>-.

5           16. (currently amended): A method to treat a subject having, or susceptible to developing, a pathogen infection, wherein the method comprises administering an effective amount of a compound to the subject, wherein the pathogen infection is a hepatitis C virus, hepatitis B virus, Western Equine Encephalitis Virus, Japanese Encephalitis Virus, Yellow  
10 Fever Virus, a poxvirus, a Dengue virus, a papillomavirus, a togavirus, a flavivirus, an intracellular bacterium, a fungus, a yeast, a parasite, *Mycobacterium*, *Listeria*, *Brucella*, *Bartonella*, *Bordetella*, *Pseudomonas*, *Yersinia*, *Vibrio*, *Salmonella*, *Streptococcus*, *Staphylococcus*, *Candida*, *Aspergillus*, *Cryptococcus*, *Plasmodium*, *Trypanosoma*, *Leishmania*, a  
15 gastrointestinal nematode, a helminth, *Cryptosporidium*, *Toxoplasma*, *Pneumocystis*, *Schistosoma*, or *Strongyloides stercoralis* infection, and wherein the compound is 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one hemihydrate or the compound has the structure



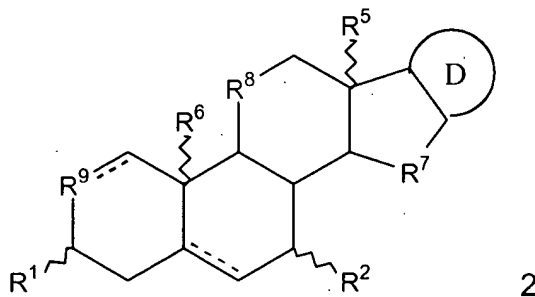
20           wherein, the dotted lines are optional double bonds and the hydrogen atom at the 5-position, if present, is in the  $\alpha$ -configuration;

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$  and  $R^{10}$  independently are -H, -OH, -OR<sup>PR</sup>, -SH, -SR<sup>PR</sup>, =S, =CH<sub>2</sub>, -N<sub>3</sub>, -NH<sub>2</sub>, -N(R<sup>PR</sup>)<sub>2</sub>, -O-Si-(R<sup>13</sup>)<sub>3</sub>, -CN, -NO<sub>2</sub>, =NOH, =NOC(O)CH<sub>3</sub>, -C(O)-CH<sub>3</sub>, -F, -Cl, -Br, -I, an ester, a thioester, a  
25 phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a

thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or,

one more of  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^{10}$ ,  $R^{15}$ ,  $R^{17}$  and  $R^{18}$  independently are =O, or,

$R^3$  and both  $R^4$  together comprise a structure of formula 2



$R^7$  is  $-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{CHR}^{10}-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{O}-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{S}-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$ ,  $-\text{O}-$ ,  $-\text{O}-\text{CHR}^{10}-$ ,  $-\text{S}-$ ,  $-\text{S}-\text{CHR}^{10}-$ ,  $-\text{NR}^{\text{PR}}-$  or  $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$ ;

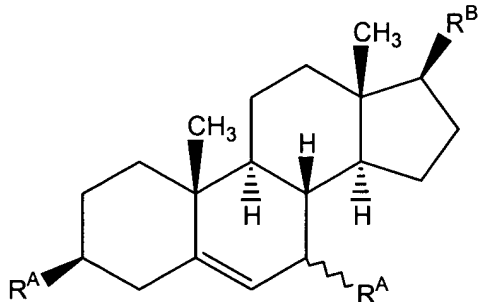
$R^8$  and  $R^9$  independently are  $-\text{CHR}^{10}-$ ,  $-\text{CHR}^{10}-\text{CHR}^{10}-$ ,  $-\text{O}-$ ,  $-\text{O}-\text{CHR}^{10}-$ ,  $-\text{S}-$ ,  $-\text{S}-\text{CHR}^{10}-$ ,  $-\text{NR}^{\text{PR}}-$  or  $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$ , or  $R^8$  or  $R^9$  independently is absent, leaving a 5-membered ring;

$R^{13}$  independently are  $\text{C}_{1-6}$  alkyl;

$R^{\text{PR}}$  independently are a protecting group;

D is a heterocycle or a 4-, 5-, 6- or 7-membered ring that comprises saturated carbon atoms, wherein 1, 2 or 3 ring carbon atoms of the 4-, 5-, 6- or 7-membered ring are optionally independently substituted with  $-\text{O}-$ ,  $-\text{S}-$  or  $-\text{NR}^{\text{PR}}-$  or where 1, 2 or 3 hydrogen atoms of the heterocycle or 1 or 2 hydrogen atoms of the 4-, 5-, 6- or 7-membered ring are substituted with  $-\text{OR}^{\text{PR}}$ ,  $-\text{SR}^{\text{PR}}$ ,  $-\text{N}(\text{R}^{13})_2$ ,  $-\text{O}-\text{Si}(\text{R}^{13})_3$ ,  $-\text{CN}$ ,  $-\text{NO}_2$ , an ester, a thioester, a

phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, a halogen, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or, one more of the ring carbons are substituted with =O or =S, or D comprises two 5- or 6-membered rings, wherein the rings are fused or are linked by 1 or 2 bonds, provided that the compound is not 3 $\beta$ ,17 $\beta$ -dihydroxyandrost-5-ene, 3 $\beta$ -hydroxyandrost-5-ene-17-one, 3 $\beta$ -hydroxyandrost-5-ene-17-one 3-sulfate or an ester or ether derivative of any of these compounds and provided that when the compound has the structure



wherein each R<sup>A</sup> independently is -OH, =O, an ester or an ether, and R<sup>B</sup> is -C(O)CH<sub>3</sub>, -OH, =O, an ester or an ether, then the ~~use of the compound~~ method is for the treatment of a subject having or susceptible to developing an autoimmune disease, inflammation or allergy, osteoporosis, acute myelitis, sarcoidosis, a cancer, a precancer, or an immunosuppression condition or an unwanted immune response either or both of which are associated with a chemotherapy, a radiation therapy, a wound, a bone fracture, a hemorrhage, a skin lesion or a burn or the medicament is for the treatment of a human having or susceptible to developing a pathogen infection selected from the group consisting of HIV-1, HIV-2, HTLV-1, HTLV-2, HSV-1, HSV-2,

HHV-6, HHV-8, CMV, hepatitis C virus, hepatitis B virus, Western Equine Encephalitis Virus, Japanese Encephalitis Virus, Yellow Fever Virus, a poxvirus, a Dengue virus, a papillomavirus, a togavirus, a  
5 flavivirus, an intracellular bacterium, *Mycobacterium*, *Listeria*, *Brucella*,  
*Bartonella*, *Bordetella*, *Pseudomonas*, *Yersinia*, *Vibrio*, *Salmonella*,  
*Streptococcus*, *Staphylococcus*, *Candida*, *Aspergillus*, *Cryptococcus*,  
*Plasmodium*, *Trypanosoma*, *Leishmania*, a gastrointestinal nematode, a  
helminth, *Cryptosporidium*, *Toxoplasma*, *Pneumocystis*, *Schistosoma*, or  
10 *Strongyloides stercoralis*.

17. (original): The method of claim 16 wherein the compound is 16 $\beta$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one, 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one, 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one hemihydrate,  
15 16 $\beta$ -chloro-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one, 16 $\alpha$ -chloro-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one, 3 $\beta$ ,16 $\alpha$ -dihydroxy-5 $\alpha$ -androstan-17-one, 3 $\beta$ ,16 $\beta$ -dihydroxy-5 $\alpha$ -androstan-17-one, 3 $\beta$ ,16 $\alpha$ ,17 $\beta$ -trihydroxy-5 $\alpha$ -androstan-17-one, 3 $\beta$ ,16 $\beta$ ,17 $\beta$ -trihydroxy-5 $\alpha$ -androstan-17-one or 3 $\alpha$ ,16 $\alpha$ ,17 $\beta$ -trihydroxy-5 $\alpha$ -androstan-17-one.

20 18. (original): The method of claim 17 wherein the pathogen infection is an intracellular bacterium infection.

19. (original): The method of claim 18 wherein the intracellular bacterium infection is a *Mycobacterium* infection and the subject is a human.

25 ~~49. 20.~~ (currently amended): The method of claim 17 wherein the pathogen infection is ~~an~~ a hepatitis B virus, hepatitis C virus, poxvirus, Dengue virus, papillomavirus, a togavirus, or a flavivirus infection.

~~20.~~ 21. (currently amended): The method of claim 17 wherein the pathogen infection is a fungus infection or a yeast infection.

5        ~~24.~~ 22. (currently amended): The method of claim ~~20~~ 21 wherein the fungus infection or yeast infection is a *Candida*, *Aspergillus*, or a *Cryptococcus* infection and the subject is a human.

10        ~~22.~~ 23. (currently amended): The method of claim 17, wherein the pathogen infection is a parasite infection.

15        ~~23.~~ 24. (currently amended): The method of claim ~~22~~ 23, wherein the parasite infection is a *Plasmodium* infection, a *Trypanosoma* infection, a *Leishmania* infection, a *Schistosoma* infection or a *Cryptosporidium* infection.

20        ~~24.~~ 25. (currently amended): The method of claim 23 wherein the compound is 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one or 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one hemihydrate and the infection is a *Plasmodium* infection and the subject is a human.

25        ~~25.~~ 26. (currently amended): A composition comprising 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one, 16 $\alpha$ -bromo-2-oxa-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one, 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-11-oxa-5 $\alpha$ -androstan-17-one or 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one hemihydrate and one or more nonaqueous liquid excipients, wherein the composition comprises less than about 3% v/v water.

30        ~~26.~~ 27. (currently amended): The composition of claim 25 wherein the composition comprises less than about 0.3% v/v water.

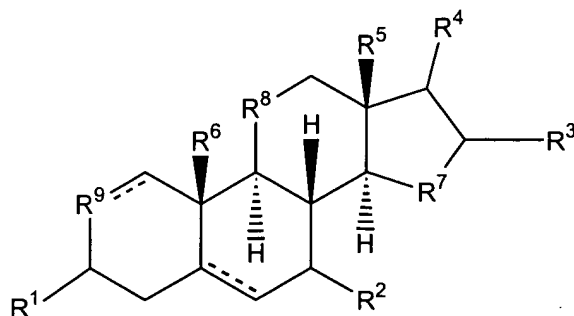
~~27.~~ 28. (currently amended): The composition of claim 25 wherein the one or more nonaqueous liquid excipients are two or more of an alcohol, a polyethylene glycol, propylene glycol and benzyl benzoate.

5

~~28.~~ 29. (currently amended): The composition of claim 25 wherein the composition is a parenteral formulation.

30. (new): A method to treat a parasite or bacterial infection in a subject, comprising intermittently administering to the subject an effective amount of a compound having the structure

10



wherein, the dotted lines are optional double bonds and the hydrogen atom at the 5-position, if present, is in the  $\alpha$ -configuration or the  $\beta$ -configuration and  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  respectively are in the  $\beta$ -,  $\beta$ -,  $\alpha$ - and  $\beta$ -configurations, the  $\beta$ -,  $\beta$ -,  $\beta$ - and  $\beta$ -configurations, the  $\alpha$ -,  $\beta$ -,  $\alpha$ - and  $\beta$ -configurations or the  $\beta$ -,  $\alpha$ -,  $\alpha$ - and  $\beta$ -configurations;

15

$R^1$  is -H, -OH, =O, -SH, =S, -O-CH<sub>3</sub>, -O-S(O)(O)-O<sup>-</sup>Na<sup>+</sup>, -O-S(O)(O)-OC<sub>2</sub>H<sub>5</sub>, -O-(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>, -O-C(O)-NH<sub>2</sub>, -O-C(O)-NHCH<sub>3</sub>, -O-C(O)-NHC<sub>2</sub>H<sub>5</sub>, -O-C(O)-NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-NHCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-CH<sub>3</sub>, -O-C(O)-C<sub>2</sub>H<sub>5</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(OCH<sub>3</sub>)<sub>2</sub>, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(OCH<sub>3</sub>)<sub>2</sub>, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>, -O-C(O)-CH<sub>2</sub>OH, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>OH, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH, -O-C(O)-CH<sub>2</sub>SH, -O-

20

25



C(O)-CH<sub>2</sub>CH<sub>2</sub>SH, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>SH, -O-S(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-  
CH<sub>2</sub>-O-C(O)-C<sub>2</sub>H<sub>5</sub>, -O-P(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-C<sub>2</sub>H<sub>5</sub>, -O-  
C(O)-A<sub>4</sub>-NH<sub>2</sub>, -O-C(O)-A<sub>6</sub>-NH<sub>2</sub>, -O-C(O)-A<sub>8</sub>-NH<sub>2</sub>, -O-C(O)-A<sub>4</sub>-OH, -O-C(O)-A<sub>6</sub>-  
5 OH, -O-C(O)-A<sub>8</sub>-OH, -O-S(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-C<sub>3</sub>H<sub>7</sub>, -O-  
P(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-C<sub>3</sub>H<sub>7</sub>, -O-S(O)(O)-O-CH<sub>2</sub>-CH(O-  
C(O)-OH)-CH<sub>2</sub>-O-C(O)-C<sub>4</sub>H<sub>9</sub>, -O-P(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-  
C<sub>4</sub>H<sub>9</sub>, -O-S(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-C<sub>6</sub>H<sub>13</sub>, -O-P(O)(O)-O-  
CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-C<sub>6</sub>H<sub>13</sub>, -O-S(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-  
10 CH<sub>2</sub>-O-C(O)-C<sub>8</sub>H<sub>17</sub>, -O-P(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-C<sub>8</sub>H<sub>17</sub>, -O-  
S(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-CH<sub>2</sub>C<sub>5</sub>H<sub>10</sub>OH, -O-P(O)(O)-O-CH<sub>2</sub>-  
CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-CH<sub>2</sub>C<sub>5</sub>H<sub>10</sub>OH, -O-S(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-  
CH<sub>2</sub>-O-C(O)-CH<sub>2</sub>C<sub>3</sub>H<sub>6</sub>OH, -O-P(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-  
CH<sub>2</sub>C<sub>3</sub>H<sub>6</sub>OH, -O-S(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-CH<sub>2</sub>C<sub>7</sub>H<sub>14</sub>OH or -  
15 O-P(O)(O)-O-CH<sub>2</sub>-CH(O-C(O)-OH)-CH<sub>2</sub>-O-C(O)-CH<sub>2</sub>C<sub>7</sub>H<sub>14</sub>OH;

R<sup>2</sup> is -H, -OH, -CH<sub>3</sub>, -OCH<sub>3</sub>, -OC<sub>2</sub>H<sub>5</sub>, -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -  
Cl, -O-C(S)-O-CH<sub>3</sub>, -O-C(S)-O-CH<sub>2</sub>CH<sub>3</sub>, -O-C(S)-O-C<sub>3</sub>H<sub>7</sub>, -O-C(S)-O-C<sub>4</sub>H<sub>9</sub>, -O-  
C(S)-O-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-O-  
CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F, -O-C(O)-  
20 O-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -SH, =S, -O-CHR<sup>24</sup>-C(O)-OR<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-  
R<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-N(R<sup>25</sup>)<sub>2</sub>, -O-CHR<sup>24</sup>-C(O)-NHR<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-NH<sub>2</sub> or -O-  
CHR<sup>24</sup>-C(O)-OC<sub>6</sub>H<sub>5</sub>;

R<sup>3</sup> is -OH, =O, -F, -Cl, -Br, -I, -O-C(O)-CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-  
CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -O-C(S)-O-CH<sub>3</sub>, -O-C(S)-O-CH<sub>2</sub>CH<sub>3</sub>, -O-C(S)-O-C<sub>3</sub>H<sub>7</sub>, -O-C(S)-O-  
25 C<sub>4</sub>H<sub>9</sub>, -O-C(S)-O-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-  
O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F, -O-  
C(O)-O-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -SH, =S, -O-CHR<sup>24</sup>-C(O)-OR<sup>25</sup>, -O-CHR<sup>24</sup>-  
C(O)-R<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-N(R<sup>25</sup>)<sub>2</sub>, -O-CHR<sup>24</sup>-C(O)-NHR<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-NH<sub>2</sub>  
or -O-CHR<sup>24</sup>-C(O)-OC<sub>6</sub>H<sub>5</sub>;

30 R<sup>4</sup> is -OH, -O-C(O)-CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -O-  
C(O)CH<sub>2</sub>NH<sub>2</sub>, -O-C(O)C(CH<sub>3</sub>)H-NH<sub>2</sub>, -O-C(O)C(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)H-NH<sub>2</sub>, -O-C(O)-O-

NHC(CH<sub>3</sub>)H-CO<sub>2</sub>H, -O-C(O)-O-NHCH<sub>2</sub>-CO<sub>2</sub>H, -O-C(O)-O-NH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)H-CO<sub>2</sub>H,  
-O-C(O)-CF<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CF<sub>3</sub>, -O-C(O)-(CH<sub>2</sub>)<sub>3</sub>CF<sub>3</sub>, -O-C(O)-(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>, -O-  
C(O)-O-CH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-C<sub>3</sub>H<sub>7</sub>, -O-C(O)-O-C<sub>4</sub>H<sub>9</sub>, -O-C(O)-O-  
5 C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-O-  
C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>F, -O-C(O)-S-CH<sub>3</sub>, -O-C(O)-S-CH<sub>2</sub>CH<sub>3</sub>, -O-  
C(O)-S-C<sub>3</sub>H<sub>7</sub>, -O-C(O)-S-C<sub>4</sub>H<sub>9</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-S-  
C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-S-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>4</sub>F, -  
O-C(S)-O-CH<sub>3</sub>, -O-C(S)-O-CH<sub>2</sub>CH<sub>3</sub>, -SH, =S, -O-C(S)-O-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-  
10 CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub> or -O-C(O)-O-  
CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub> or -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F;

R<sup>5</sup> is -H, -CH<sub>3</sub> or -CH<sub>2</sub>OH;

R<sup>6</sup> is -H, -CH<sub>3</sub> or -CH<sub>2</sub>OH;

R<sup>7</sup> is -CH<sub>2</sub>-, -O-, -NH- or -S-;

15 R<sup>8</sup> is -CH<sub>2</sub>-, -O-, -NH- or -S-;

R<sup>9</sup> is -CH<sub>2</sub>-, =CH-, -O-, -NH- or -S-;

R<sup>24</sup> independently are -H, -CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, C<sub>1-8</sub> alkyl, C<sub>2-8</sub>  
alkenyl, aryl or heterocycle where each alkyl, alkenyl, aryl and heterocycle moiety  
is independently optionally substituted with 1, 2, or 3, usually 1, -O-, -S-, -NH-,  
20 halogen, aryl, -OX, -SX, -NHX, =O or -CN moieties or the C<sub>1-8</sub> alkyl is optionally  
substituted with 3, 4, 5 or 6 halogens, and X is -H or a protecting group;

R<sup>25</sup> independently are -H, -CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, C<sub>1-12</sub> alkyl, C<sub>2-12</sub>  
alkenyl, aryl, heterocycle, -CH<sub>2</sub>-heterocycle or -CH<sub>2</sub>-aryl, where each alkyl  
alkenyl, aryl, heterocycle, -CH<sub>2</sub>-heterocycle or -CH<sub>2</sub>-aryl moiety is independently  
25 optionally substituted with 1 or 2, usually 1, -O-, -S-, -NH-, halogen, aryl, -OX, -  
SX, -NHX, =O, -C(O)OX or -CN moieties or the C<sub>1-12</sub> alkyl, C<sub>2-12</sub> alkenyl or aryl,  
are optionally independently substituted with 3, 4, 5 or 6 halogens, where X is -H  
or a protecting group, or the aryl, heterocycle, -CH<sub>2</sub>-heterocycle or -CH<sub>2</sub>-aryl  
moieties are optionally independently substituted with 1, 2 or 3 C<sub>1-4</sub> alkyl moieties  
30 or with 1, 2 or 3 C<sub>1-4</sub> alkoxy moieties at the aryl moiety or at the heterocycle; and

A4-NH<sub>2</sub> is a 4 carbon aminoalkyl group, A6-NH<sub>2</sub> is a 6 carbon aminoalkyl group, A8-NH<sub>2</sub> is a 8 carbon aminoalkyl group, A4-OH is a 4 carbon alkyl group substituted with -OH or -O-, A6-OH is a 6 carbon alkyl group substituted with -OH or -O-, A8-OH is a 8 carbon alkyl group substituted with -OH or -O-.

31. (new): The method of claim 30 wherein R<sup>1</sup> is -OH or =O.

10 32. (new): The method of claim 31 wherein R<sup>2</sup> is -H, -SH or =S.

33. (new): The method of claim 32 wherein R<sup>3</sup> is -OH or =O.

34. (new): The method of claim 33 wherein R<sup>4</sup> is -OH or -SH.

15 35. (new): The method of claim 34 wherein R<sup>5</sup> is -CH<sub>2</sub>OH or -CH<sub>3</sub>.

36. (new): The method of claim 35 wherein R<sup>6</sup> is -H or -CH<sub>3</sub>.

20 37. (new): The method of claim 36 wherein R<sup>7</sup> is -CH<sub>2</sub>- or -O-.

38. (new): The method of claim 37 wherein R<sup>8</sup> is -CH<sub>2</sub>-, -NH- or -O-.

39. (new): The method of claim 38 wherein R<sup>9</sup> is -CH<sub>2</sub>-, =CH-, -NH- or -O-.

25 40. (new): The method of claim 39 wherein R<sup>1</sup> is =O, R<sup>2</sup> is -H and R<sup>4</sup> is -OH.

41. (new): The method of claim 39 wherein the compound is 3 $\beta$ ,16 $\alpha$ ,17 $\beta$ -trihydroxyandrostane, 3 $\alpha$ ,16 $\alpha$ ,17 $\beta$ -trihydroxyandrostane, 3-oxo-16 $\alpha$ ,17 $\beta$ -

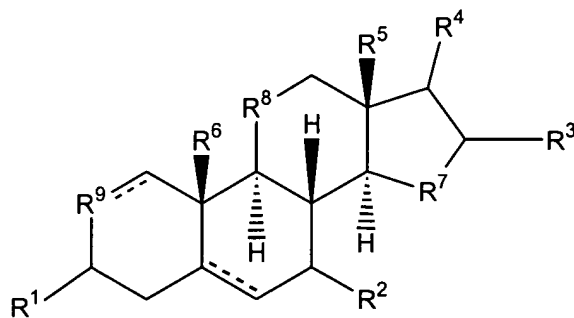
30

dihydroxyandrostane, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrostane, 3-oxo-16 $\alpha$ ,17 $\beta$ -  
dihydroxyandrost-1-ene, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrost-1-ene, 3-oxo-16 $\alpha$ ,17 $\beta$ -  
dihydroxyandrost-5-ene, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrost-5-ene, 3-oxo-16 $\alpha$ ,17 $\beta$ -  
5 dihydroxyandrost-1,5-diene, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrost-1,5-diene or a 8-  
oxa, 8-thia, 8-aza, 15-oxa, 15-aza, 15-thia or 19-nor analog of any of these  
compounds.

42. (new): The method of claim 39 wherein the compound is 3 $\beta$ ,16 $\alpha$ ,17 $\beta$ -  
10 trihydroxyandrostane.

43. (new): The method of claim 39 wherein the compound is 3-oxo-  
16 $\alpha$ ,17 $\beta$ -dihydroxyandrostane.

15 44. (new): A formulation comprising one or more excipients and a  
compound having the structure



wherein, the dotted lines are optional double bonds and the hydrogen  
atom at the 5-position, if present, is in the  $\alpha$ -configuration or the  $\beta$ -  
20 configuration and R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> respectively are in the  $\beta$ -,  $\beta$ -,  $\alpha$ - and  $\beta$ -  
configurations, the  $\beta$ -,  $\beta$ -,  $\beta$ - and  $\beta$ -configurations, the  $\alpha$ -,  $\beta$ -,  $\alpha$ - and  $\beta$ -  
configurations or the  $\beta$ -,  $\alpha$ -,  $\alpha$ - and  $\beta$ -configurations;

R<sup>1</sup> is =O;

R<sup>2</sup> is -H, -OH, -CH<sub>3</sub>, -OCH<sub>3</sub>, -OC<sub>2</sub>H<sub>5</sub>, -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -  
25 Cl, -O-C(S)-O-CH<sub>3</sub>, -O-C(S)-O-CH<sub>2</sub>CH<sub>3</sub>, -O-C(S)-O-C<sub>3</sub>H<sub>7</sub>, -O-C(S)-O-C<sub>4</sub>H<sub>9</sub>, -O-

C(S)-O-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F, -O-C(O)-O-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -SH, =S, -O-CHR<sup>24</sup>-C(O)-OR<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-R<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-N(R<sup>25</sup>)<sub>2</sub>, -O-CHR<sup>24</sup>-C(O)-NHR<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-NH<sub>2</sub> or -O-CHR<sup>24</sup>-C(O)-OC<sub>6</sub>H<sub>5</sub>;

R<sup>3</sup> is -OH, -O-C(O)-CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -O-C(S)-O-CH<sub>3</sub>, -O-C(S)-O-CH<sub>2</sub>CH<sub>3</sub>, -O-C(S)-O-C<sub>3</sub>H<sub>7</sub>, -O-C(S)-O-C<sub>4</sub>H<sub>9</sub>, -O-C(S)-O-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F, -O-C(O)-O-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -SH, =S, -O-CHR<sup>24</sup>-C(O)-OR<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-R<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-N(R<sup>25</sup>)<sub>2</sub>, -O-CHR<sup>24</sup>-C(O)-NHR<sup>25</sup>, -O-CHR<sup>24</sup>-C(O)-NH<sub>2</sub> or -O-CHR<sup>24</sup>-C(O)-OC<sub>6</sub>H<sub>5</sub>;

R<sup>4</sup> is -OH, -O-C(O)-CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)CH<sub>2</sub>NH<sub>2</sub>, -O-C(O)C(CH<sub>3</sub>)H-NH<sub>2</sub>, -O-C(O)C(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)H-NH<sub>2</sub>, -O-C(O)-O-NHC(CH<sub>3</sub>)H-CO<sub>2</sub>H, -O-C(O)-O-NHCH<sub>2</sub>-CO<sub>2</sub>H, -O-C(O)-O-NH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)H-CO<sub>2</sub>H, -O-C(O)-CF<sub>3</sub>, -O-C(O)-CH<sub>2</sub>CF<sub>3</sub>, -O-C(O)-(CH<sub>2</sub>)<sub>3</sub>CF<sub>3</sub>, -O-C(O)-(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>, -O-C(O)-O-CH<sub>3</sub>, -O-C(O)-O-CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-C<sub>3</sub>H<sub>7</sub>, -O-C(O)-O-C<sub>4</sub>H<sub>9</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-O-C<sub>6</sub>H<sub>4</sub>F, -O-C(O)-S-CH<sub>3</sub>, -O-C(O)-S-CH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-S-C<sub>3</sub>H<sub>7</sub>, -O-C(O)-S-C<sub>4</sub>H<sub>9</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>5</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-S-C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>, -O-C(O)-S-C<sub>6</sub>H<sub>4</sub>F, -O-C(S)-O-CH<sub>3</sub>, -O-C(S)-O-CH<sub>2</sub>CH<sub>3</sub>, -SH, =S, -O-C(S)-O-C<sub>6</sub>H<sub>13</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub> or -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub> or -O-C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>F;

R<sup>5</sup> is -H, -CH<sub>3</sub> or -CH<sub>2</sub>OH;

R<sup>6</sup> is -H, -CH<sub>3</sub> or -CH<sub>2</sub>OH;

R<sup>7</sup> is -CH<sub>2</sub>-, -O-, -NH- or -S-;

R<sup>8</sup> is -CH<sub>2</sub>-, -O-, -NH- or -S-;

R<sup>9</sup> is -CH<sub>2</sub>-, =CH-, -O-, -NH- or -S-;

$R^{24}$  independently are -H, -CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, C<sub>1-8</sub> alkyl, C<sub>2-8</sub> alkenyl, aryl or heterocycle where each alkyl, alkenyl, aryl and heterocycle moiety is independently optionally substituted with 1, 2, or 3, usually 1, -O-, -S-, -NH-,  
5 halogen, aryl, -OX, -SX, -NHX, =O or -CN moieties or the C<sub>1-8</sub> alkyl is optionally substituted with 3, 4, 5 or 6 halogens, and X is -H or a protecting group;

$R^{25}$  independently are -H, -CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, C<sub>1-12</sub> alkyl, C<sub>2-12</sub> alkenyl, aryl, heterocycle, -CH<sub>2</sub>-heterocycle or -CH<sub>2</sub>-aryl, where each alkyl alkenyl, aryl, heterocycle, -CH<sub>2</sub>-heterocycle or -CH<sub>2</sub>-aryl moiety is independently  
10 optionally substituted with 1 or 2, usually 1, -O-, -S-, -NH-, halogen, aryl, -OX, -SX, -NHX, =O, -C(O)OX or -CN moieties or the C<sub>1-12</sub> alkyl, C<sub>2-12</sub> alkenyl or aryl, are optionally independently substituted with 3, 4, 5 or 6 halogens, where X is -H or a protecting group, or the aryl, heterocycle, -CH<sub>2</sub>-heterocycle or -CH<sub>2</sub>-aryl moieties are optionally independently substituted with 1, 2 or 3 C<sub>1-4</sub> alkyl moieties  
15 or with 1, 2 or 3 C<sub>1-4</sub> alkoxy moieties at the aryl moiety or at the heterocycle; and

A<sub>4</sub>-NH<sub>2</sub> is a 4 carbon aminoalkyl group, A<sub>6</sub>-NH<sub>2</sub> is a 6 carbon aminoalkyl group, A<sub>8</sub>-NH<sub>2</sub> is a 8 carbon aminoalkyl group, A<sub>4</sub>-OH is a 4 carbon alkyl group substituted with -OH or -O-, A<sub>6</sub>-OH is a 6 carbon alkyl group substituted with -OH or -O-, A<sub>8</sub>-OH is a 8 carbon alkyl group substituted with -OH or -O-.

20  
45. (new): The formulation of claim 44 wherein the compound is 3 $\beta$ ,16 $\alpha$ ,17 $\beta$ -trihydroxyandrostane, 3 $\alpha$ ,16 $\alpha$ ,17 $\beta$ -trihydroxyandrostane, 3-oxo-16 $\alpha$ ,17 $\beta$ -dihydroxyandrostane, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrostane, 3-oxo-16 $\alpha$ ,17 $\beta$ -dihydroxyandrost-1-ene, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrost-1-ene, 3-oxo-  
25 16 $\alpha$ ,17 $\beta$ -dihydroxyandrost-5-ene, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrost-5-ene, 3-oxo-16 $\alpha$ ,17 $\beta$ -dihydroxyandrost-1,5-diene, 3-oxo-16 $\beta$ ,17 $\beta$ -dihydroxyandrost-1,5-diene or a 8-oxa, 8-thia, 8-aza, 15-oxa, 15-aza, 15-thia or 19-nor analog of any of these compounds.

46. (new): The formulation of claim 44 wherein the formulation is a solid formulation.

5           47. (new): The formulation of claim 44 wherein the formulation is a liquid formulation.

48. (new): The formulation of claim 44 wherein the compound is  $3\beta,16\alpha,17\beta$ -trihydroxyandrostane.

10

49. (new): The formulation of claim 44 wherein the compound is 3-oxo- $16\alpha,17\beta$ -dihydroxyandrostane.

15